

10. A plastic injection molded centrifugal impeller as set forth in claim 2 wherein the inner diameter of the inlet ring is approximately 2 to 5 percent less than the diameter of the outer edges of the blades.

11. A plastic injection molded centrifugal impeller as set forth in claim 3 wherein the outer diameter of the inlet ring is approximately 2 to 5 percent greater than that of the outer edges of the blades.

ABSTRACT

A centrifugal air impeller designed for injection molding has a mold parting line extending intermediate the sides of the blades thus permitting optimum configurations of the inner and outer blade edges and enhanced impeller performance. The impeller inlet ring has an inner diameter less than that of the outer edges of the blades and an outer diameter greater than the outer diameter of the blades. The backplate has a diameter greater than that of the inner diameter of the blades.

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